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Office Memorandum • UNITED STATES GOVERNMENT

TO : The Files - Contract 602, Task Order 3

DATE: 30 October 1959

FROM :

SUBJECT: Trip Report - TP-3 Motor Development with

1. On 23 October 1959 the writer visited the
 to discuss the development of the governed speed, 12 volt
DC motor. represented the
company.

2. Background: In April 1959 it became apparent that the TP-3
motor being procured through , from
 could not meet the speed accuracy over the voltage
and temperature range specified. Due to an urgent need for the TP-3
printers the was used and a manual control was added to compen-
sate for the speed drift. The continuing need for a stable DC motor
led to R+D project 2672 and task order 3, Contract 602. The task order
was written in the amount of \$3,158.00 to cover a three-month period
beginning 19 May 1959. Deliverable items are one engineering model of
the motor and a final engineering report with engineering drawings.
Time extensions were granted through 31 October 1959.

3. The engineering model was enroute to the Agency during this
visit. However, a copy of the final report had been retained for my
examination. The test data supplied in this report shows that the design
goal of 2% regulation over the temperature range of -10°C to +40°C has
been achieved. The engineering model has been forwarded to the Labora-
tory for verification of these findings. Further refinement of design
would be necessary to minimize a very strong magnetic cogging of the
armature. Increasing the skew of the slotted armature laminations
would be expected to minimize this action. Additional effort on this
project will be determined by the Laboratory analysis of this first
model.

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